INDEX TO VOLUME XXXI

The asterisk * preceding the page number indicates an original article in the Journal. The letter T preceding the page number indicates a paper reported in the Transactions of the American Association of Neuropathologists. The letter D preceding the page number indicates a discussion of an original article or some other item published in the Journal. The letter B preceding the page number indicates a book review. Subject entries are made for all articles. Author entries are made for original articles and Society Transactions.

Accumulation of sudanophilic lipids in the cerebral white matter of premature primates: an experimental inquiry into the pathogenesis of the Virchow-Schwartz-Banker-Larroche lesion, T183

Acute changes in the central nervous system of monkeys exposed to protons, *72

Adachi, M., Torii, J., Amsterdam, D., Brooks, S., Schneck, L., and Volk, B. W., tissue culture from fetal Tay-Sachs disease, T208

—, Wellmann, K. F., and Volk, B. W., the late phase of CNS lesions in experimental hypercholesterolemia in normal and subdiabetic rabbits, T175, *332

Aguayo, A. J., see Bray, G. M., T197

—, Martin, J. B., and Bray, G. M., effects of nerve growth factor (NGF) suppression on peripheral unmyelinated nerve fibers, T210

Allescheriosis (maduromycosis) of the central nervous system, T211

Alterations in isoenzyme patterns of esterases in rat brain following the administration of parathion, T167

Altered plasma membranes in experimental scrapie, T171

Alvord, Jr., E. C., see Sumi, S. M., T183

Ambrose, E. J., Batzdorf, U. and Easty, D. M., morphology of astrocytomas in tissue culture: optical and stereoscan microscopy, *596

Amsterdam, D., see Adachi, M., T208

Andermann, F., see Carpenter, S., T209

Antibody to basic protein in experimental allergic encephalomyelitis demonstrated histochemically with peroxidase-labeled antigen, T161

Anzil, A. P., Blinzinger, K., Mehraein, P., Dorn, G., and Neuhauser, G., cytoplasmic inclusions in a child affected with Krabbe's Disease (globoid leucodystrophy) and in the rabbit injected with galactocerebrosides, *370

Arachnoid membrane, astrocytic gliosis of, *147

Arees, E. A., and Mayer, J., monosodium glutamate-induced brain lesions in mice, T181

Armstrong, D., see Austin, J., T174

Arteries, innervation of human intracranial, *526

Arteriovenous communications in the human brain, *519

Asbury, A. K., Gale, M. K., Cox, S. C., and Berg, B. O., giant axonal neuropathy, T196

—, Ojemann, R. G., Nielsen, S. L., and Sweet, W. H., neuropathologic study of fourteen cases of malignant brain tumor treated by boron-10 slow neutron capture radiation, *278

Ashley, W., see Haymaker, W., *72

Astrocytic gliosis of vascular adventitia and arachnoid membrane in infantile Gaucher's disease, *147

Astrocytomas, morphology in tissue culture, *596

Atheroma, aortic, relationship to spinal cord emboli in dogs and monkeys, T178, *535

Atypical Hodgkin's disease with intramedullary spinal cord involvement, T202

Austin, J., Armstrong, D., Schlenker, J., Wisely, T., and Sheppard, J., metabolic effects of unilateral sympathectomy: reduction of cholesterol esterase and triglyceride esterase activity, T174

Autilio-Gambetti, L., see Gambetti, P., T206

Autoradiographic studies on histogenesis of brain macrophages in the mouse, *502

Axon lesions, nerve cell regeneration after, *683

— reaction, histochemical and histological studies in feline motoneurons, *221

Axonal transection, response of amphibian glial cells to, *267

Baden, M., see Pearson, J., T165

Bailey, O. T., see James W. Kernohan, *155

Baker, G., see Haymaker, W., *72

Ballinger, E. R., see Haymaker, W., *72

Baloh, R., see Cancilla, P. A., T159

Banker, B. Q., see Steinberg, M. C., T158

Baringer, J. R., see Nielsen, S. L., T170

—, Swoveland, P., and Nathanson, N., viral hemorrhagic encephalopathy of rats: a phase and electron microscopic study, T172

Barrett, R. E., Coté, L. J., Tennyson, V. M., and Mytilineou, C., the neostriatum of the fetal rabbit following injection of

INDEX TO VOLUME XXXI

The asterisk * preceding the page number indicates an original article in the Journal. The letter T preceding the page number indicates a paper reported in the Transactions of the American Association of Neuropathologists. The letter D preceding the page number indicates a discussion of an original article or some other item published in the Journal. The letter B preceding the page number indicates a book review. Subject entries are made for all articles. Author entries are made for original articles and Society Transactions.

Accumulation of sudanophilic lipids in the cerebral white matter of premature primates: an experimental inquiry into the pathogenesis of the Virchow-Schwartz-Banker-Larroche lesion, T183

Acute changes in the central nervous system of monkeys exposed to protons, *72

Adachi, M., Torii, J., Amsterdam, D., Brooks, S., Schneck, L., and Volk, B. W., tissue culture from fetal Tay-Sachs disease, T208

—, Wellmann, K. F., and Volk, B. W., the late phase of CNS lesions in experimental hypercholesterolemia in normal and subdiabetic rabbits, T175, *332

Aguayo, A. J., see Bray, G. M., T197

—, Martin, J. B., and Bray, G. M., effects of nerve growth factor (NGF) suppression on peripheral unmyelinated nerve fibers, T210

Allescheriosis (maduromycosis) of the central nervous system, T211

Alterations in isoenzyme patterns of esterases in rat brain following the administration of parathion, T167

Altered plasma membranes in experimental scrapie, T171

Alvord, Jr., E. C., see Sumi, S. M., T183

Ambrose, E. J., Batzdorf, U. and Easty, D. M., morphology of astrocytomas in tissue culture: optical and stereoscan microscopy, *596

Amsterdam, D., see Adachi, M., T208

Andermann, F., see Carpenter, S., T209

Antibody to basic protein in experimental allergic encephalomyelitis demonstrated histochemically with peroxidase-labeled antigen, T161

Anzil, A. P., Blinzinger, K., Mehraein, P., Dorn, G., and Neuhauser, G., cytoplasmic inclusions in a child affected with Krabbe's Disease (globoid leucodystrophy) and in the rabbit injected with galactocerebrosides, *370

Arachnoid membrane, astrocytic gliosis of, *147

Arees, E. A., and Mayer, J., monosodium glutamate-induced brain lesions in mice, T181

Armstrong, D., see Austin, J., T174

Arteries, innervation of human intracranial, *526

Arteriovenous communications in the human brain, *519

Asbury, A. K., Gale, M. K., Cox, S. C., and Berg, B. O., giant axonal neuropathy, T196

—, Ojemann, R. G., Nielsen, S. L., and Sweet, W. H., neuropathologic study of fourteen cases of malignant brain tumor treated by boron-10 slow neutron capture radiation, *278

Ashley, W., see Haymaker, W., *72

Astrocytic gliosis of vascular adventitia and arachnoid membrane in infantile Gaucher's disease, *147

Astrocytomas, morphology in tissue culture, *596

Atheroma, aortic, relationship to spinal cord emboli in dogs and monkeys, T178, *535

Atypical Hodgkin's disease with intramedullary spinal cord involvement, T202

Austin, J., Armstrong, D., Schlenker, J., Wisely, T., and Sheppard, J., metabolic effects of unilateral sympathectomy: reduction of cholesterol esterase and triglyceride esterase activity, T174

Autilio-Gambetti, L., see Gambetti, P., T206

Autoradiographic studies on histogenesis of brain macrophages in the mouse, *502

Axon lesions, nerve cell regeneration after, *683

— reaction, histochemical and histological studies in feline motoneurons, *221

Axonal transection, response of amphibian glial cells to, *267

Baden, M., see Pearson, J., T165

Bailey, O. T., see James W. Kernohan, *155

Baker, G., see Haymaker, W., *72

Ballinger, E. R., see Haymaker, W., *72

Baloh, R., see Cancilla, P. A., T159

Banker, B. Q., see Steinberg, M. C., T158

Baringer, J. R., see Nielsen, S. L., T170

—, Swoveland, P., and Nathanson, N., viral hemorrhagic encephalopathy of rats: a phase and electron microscopic study, T172

Barrett, R. E., Coté, L. J., Tennyson, V. M., and Mytilineou, C., the neostriatum of the fetal rabbit following injection of

l-dopa; a biochemical, histofluorescent, and electron microscopic study, T166
Barrier to proteins within the spinal meninges, T176
Barron, K. D., Bernsohn, J., and Mitzen, E., nonspecific esterases of human peripheral nerve and centrum ovale, *562
—, see Means, E. D., T168, *221
Basement membrane and capillary endothelial alterations in hypokalemic periodic paralysis: an electron microscopic study, T160
Bastian, F. O., papova-like virus particles in a human brain tumor, T201
Batzdorf, U. see Ambrose, E. J., *596
Beggs, J., see Waggener, J. D., T187
Behar, A. J., see Haymaker, W., *72
Benson, R. W., see Norenberg, M. D., T184
Berg, B. O., see Asbury, A. K., T196
Bernsohn, J., see Barron, K. D., *562
Beskorvainy, A., see Clasen, R. A., T205
Bignami, A., and Eng, L. F., myelin basic protein and glial acidic protein in Wallerian degeneration of the CNS, T199
Bigner, D. D., Kvedar, J. P., Shaffer, T. C., Vick, N. A., Engel, W. K., and Day, E. D., factors influencing the cell type of brain tumors induced in dogs by Schmidt-Ruppin Rous sarcoma virus, *583
Billings, S. M., see Webster, H. deF., T196, *102
Bingle, G. J., see Watanabe, I., *352
Biochemical changes in neostriatum after 6-hydroxydopamine implantation in brainstem of monkey, T167
— studies on Guam Parkinsonism dementia, T186
Blinzinger, K., see Anzil, A. P., *370
Boesel, C., see Liss, L., T194
Boron-10 slow neutron capture radiation, effect on malignant brain tumors, *278
Bornstein, M. B., see Feldman, L. A., T171
—, see Stern, J., T195
Brain damage, glutamate-induced, in infant primates, *464
Bray, G. M., see Aguayo, A. J., T210
—, Peyronnard, J. M., and Aguayo, A. J., ultrastructural study of degeneration and regeneration in unmyelinated nerve fibers, an, T197
—, see Grunnet, M. L., T184
Brightman, M., Prescott, L., and Kirschestein, R., cytological features pertaining to the distribution of exogenous peroxidase in simian virus 40-induced brain tumors, T177
Brooks, S., see Adachi, M., T208
Browder, A., see Kaplan, H. A., T180
Browder, J., see Kaplan, H. A., T180
Brownson, R. H., see Vijayan, V. K., T167
Brunngraber, E. G., Witting, L. A., and Haberland, C., chemical analysis of heteropolysaccharide chains derived from gray matter glycoproteins in Tay-Sachs disease, T208
Bullock, B., and Moossy, J., cerebral infarction with atherosclerotic occlusion of the middle cerebral artery in a squirrel monkey (Saimiri sciureus) fed an atherogenic diet, T177
Burde, R. M., Schainker, B., and Kayes, J., monosodium glutamate: necrosis of hypothalamic neurons in infant rats and mice following either oral or subcutaneous administration, T181
Burger, P. C., see Graham, D. G., T209
Burrell, R., see Chou, S. M., T173
Buyse, M., see Dubois-Dalcq, *645

Call, N., see Haymaker, W., *72
Callaway, C. S., see Perl, D. P., T172
Campbell, M. J., ultrastructural observations on the Wobbler mouse, T190
Cancilla, P. A., Baloh, R., Kalyanaraman, K., Munsat, T., Pearson, C. M., and Rich, R., regeneration of human muscle: a study of normal and dystrophic muscle after injury, T159
Carpenter, S., Karpati, G., and Andermann, F., generalized lipofuscinosis and unusual glomerular deposits in a case of juvenile amaurotic idiocy, T209
—, see Clarke, J. T. R., *247
Cell line derived from glioblastoma multiforme: a histological, histochemical, ultrastructural and biochemical analysis, a, T194
Centrum ovale, nonspecific esterases of, *562
Cerebellar alterations, an electron microscopic study of cycasin-induced, *113
Cerebellum, morphologic study of effects of LSD on neurons in cultures of, *411
Cerebral arteritis induced by pre-renal coarctation of the aorta of the rat, T178
— infarction with atherosclerotic occlusion of the middle cerebral artery in a squirrel monkey (Saimiri sciureus) fed an atherogenic diet, T177
— malformation in mice following infection with bluetongue virus during fetal and neonatal life, T168
— microcirculation in experimental polycythemia, erythrocyte velocity and fluorescein transit time, *126
Challenor, Y., see Pearson, J., T165
Chang, L. W., Desnoyers, P. A., and Hartmann, H. A., quantitative cytochemical studies of RNA in experimental mercury poisoning. I. changes in RNA content, *489
Chauvin, P. B., see Roelofs, R. I., T158
Chemical analysis of heteropolysaccharide chains derived from gray matter glycoproteins in Tay-Sachs disease, T208
Chou, S. M., Burrell, R., Harley, J., Gutmann, L., and Roos, R., subacute focal adenovirus encephalitis, T173
Circulating complexes in neurologic disease, T161
Clarke, J. T. R., Karpati, G., Carpenter, S., and Wolfe, L. S., effect of vincristine on skeletal muscle in the rat. a correlative histochemical, ultrastructural and chemical study, the, *247
Clasen, R. A., see Hindo, W. H., T206

—, Pandolfi, S., Starr, A. J., and Beskorvainy, A., proteins of edema fluid in experimental cerebral injury with edema, the, T205
Clinico pathological study of two cases of the rigid form of Huntington's chorea, T189
Clustering of the morphologic components of perinatal telencephalic leucoencephalic leucoencephalopathy, T213
Coblentz, J., see Terry, R. D., T188
Cohen, D. J., allescheriosis (maduromycosis) of the central nervous system, T211
Cole, G. A., see Monjan, A. A., T170
Cook, S., see Dowling, P., T161
Copeland, A., see Means, E. D., T168
Correlation of structural maturation of cerebral pallium in rabbit fetuses with progressive changes in lipids and nucleic acids, T207
Coté, L. J., see Barrett, R. E., T166
—, see Gilman, S., T167
Cox, S. C., see Asbury, A. K., T196
Cravioto, H., see Goebel, H. H., *54
—, Weiss, J. F., Weiss, E. deC., Palekar, L., and Ransohoff, J., experimental neurinomas induced with nitrosourea derivatives. T204
—, see Ogata, J., *454
—, see Weiss, J. F., T203
Cultures, measles-infected central nervous tissue, virus-host relationships in, *624
Curless, R., see Grunnet, M. L., T184
Cycasin, an electron microscopic study of cerebellar alterations induced by, *113
Cytological features pertaining to the distribution of exogenous peroxidase in simian virus 40-induced brain tumors, T177
Cytoplasmic inclusions in a child affected with Krabbe's Disease (globoid leucodystrophy) and in the rabbit injected with galactocerebrosides, *370

Day, E. D., see Bigner, D. D., *583
Dean, D. J., see Graham, D. G., T209
Degeneration of the gliofibers in the ependymal lining of the senile brain, T187
Dekaban, A. S., and Patton, V. M., correlation of structural maturation of cerebral pallium in rabbit fetuses with progressive changes in lipids and nucleic acids, T207
Dembitzer, H. M., see Hirano, A., *113
De Paul, L., see Suzuki, K., T206
Derren, E. C., see Mendell, J. R., T157
Desnoyers, P. A., see Chang, L. W., *489
Di Chiro, G., Stein, S. C., and Harrington T., spontaneous cerebrospinal fluid rhinorrhea in normal dogs. Radioisotope studies of an alternate pathway of CSF drainage, *447
Distribution of intraventricular horseradish peroxidase in normal and hydrocephalic cat brains, *454
— technetium in experimental cerebral injury with edema, the, T206
Dodson, R. F., see Garcia, J. H., T178
Dorn, G., see Anzil, A. P., *370
Dowling, P., and Cook, S., circulating complexes in neurologic disease, T161
Dubois-Dalcq, M., influence of fatty acids on fine structure of cultured neurons. an experimental approach to Refsum's disease, *645
Dudley, Jr., A. W., Paik, W. C., and Lalich, J. J., cerebral arteritis induced by prerenal coarctation of the aorta of the rat, T178
Duffy, P. E., see Miyoshi, K., T169
Duma, R., see Martinez, A. J., T173
Dyck, P. J., Johnson, W. J., and Lambert, E. H., segmental demyelination secondary to axonal dystrophy in uremic neuropathy, T198
Dysmyelination in "quaking" mouse. electron microscopic study, *352
Dysmyelinogenesis in the Quaking mouse. an ultrastructural study, T190

Earl, K. M., newsletter, 718
Early ultrastructural and cytochemical changes produced in white matter by d-galactosamine, T165
Easty, D. M., see Ambrose, E. J., *596
Effect of anemia on erythrocyte velocity and plasma transit time in the cerebral microcirculation of macroglobulinemic mice, T179
— beta-irradiation on induction of brain tumors in mice with methylcholanthrene, the, T205
— lead intoxication and starvation on postnatal cortical development in the rat, T163
— morphine sulfate on cells of glioblastoma strain in tissue culture, T204
— vincristine on skeletal muscle in the rat. a correlative histochemical, ultrastructural and chemical study, the, *247
— argon and gamma-radiation on Orosophila brain, T199
— methylazoxymethanol glucoside (cycasin) and methylazoxymethanol acetate on the postnatal mouse cerebellum and spinal cord, T191
— nerve growth factor (NGF) suppression on peripheral unmyelinated nerve fibers, T210
— sodium azide on cultures of peripheral nervous system, the, *393
Electron microscopic study of cycasin-induced cerebellar alterations, an, *113
Eng, L. F., see Bignami, A., T199
—, see Sumi, S. M., T183
Engel, W. K., see Bigner, D. D., *583
—, see Mendell, J. R., T157, *433
—, see Roelofs, R. I., T158
Ependymomas, ultrastructure of human and experimental, *54
Erythrocyte velocity and fluorescein transit time through the cerebral microcirculation in experimental polycythemia, *126
Escueta, A. V., see Graham, D. G., T209
Estable-Puig, J. F., and Estable-Puig, R. F.

de, some ultrastructural and pathological features of unmyelinated axons, †195
Estable-Puig, R. F. de, see Estable-Puig, J. F., †195
Esterases, nonspecific, of human peripheral nerve and centrum ovale, *562
Evaluation of presence of lipid in rectal neurones and its relationship to neurologic disease, †207
Experimental alcoholism in rats: RNA content and composition in isolated cerebellar Purkinje cells after long-term treatment, *346
— amebic meningoencephalitis in mice, †173
— cerebral atherosclerosis in the Hormel miniature pig, †175
— cerebral infarction: studies on permeability changes of the blood-brain-barrier, †178
— neurinomas induced with nitrosourea derivatives, †204
— production of spinal cord infarcts, †178
Eylar, E. H., see Johnson, A. B., †161

Factors influencing the cell type of brain tumors induced in dogs by Schmidt-Ruppin Rous sarcoma virus, *583
Fang, H. C. H., lacunar infarction: a clinicopathologic correlation study, †212
Faris, A. A., histochemical study on chromatolytic neurons in the hamster, †212
Fatty acids, influence on fine structure of cultured neurons, *645
Feigin, I., see Ogata, J., *519
Feigin, R. D., see Olney, J. W., *464
Feldman, L. A., C. S. Raine, R. D. Sheppard, and M. B. Bornstein, virus-host relationships in measles-infected cultures of central nervous tissue, *624
—, Sheppard, R. D., and Bornstein, M. B., the replication of measles virus in cultured hamster cerebellum, †171
Ferrendelli, J. A., Sedgwick, W. G., and Suntzeff, V., regional brain metabolism and lipofuscin accumulation during aging, †210
Filer, Jr., L. J., see Reynolds, W. A., †181
Fine structure and biochemical studies of MED myopathy in C57BL6J mice, †157
— of the ventricular ependyma in normal and hydrocephalic mice of the HY-3 strain, †183
Finlayson, M. H., Mersereau, W. A., and Moore, S., spinal cord emboli in dogs and monkeys and their relevance to aortic atheroma in man, †178, *535
Fischer, V. W., see Nelson, J. S., *317
Flor, W. J., light and electron microscopic studies of eisinophil-induced Purkinje cell degeneration (the Gordon phenomenon), †160
Flores da Cunha, B., see Garcia, J. H., †178
Focal ependymal cell loss: incidence in man and experimental production in myxovirus infected rodents, †171
Formation of sulfatide inclusions in cultures of organized central and peripheral nervous system, the †195
Friede, R. L., subpial hemorrhage in infants, *548
Fujita, S., see Kitamura, T., *502

Gajdusek, D. C., see Lampert, P., †171
Galactocerebrosides, eytoplasmic inclusion in rabbit injected with, *370
Gale, M. K., see Asbury, A. K., †196
Gambetti, P., Gonatas, N. K., and Autilio-Gambetti, L., malnutrition and formation of synapses: morphological and biochemical study of synaptosome fractions, †206
Gamboa, E. T., see Miyoshi, K., †169
Garcia, J. H., Dodson, R. F., Hashi, K., and Flores da Cunha, B., experimental cerebral infarction: studies on permeability changes of the blood-brain-barrier, †178
Gaucher's disease infantile, astrocytic gliosis of vascular adventitia and arachnoid membrane, *147
Generalized lipofuscinosis. (Generalized Kufs' disease), *688
— and unusual glomerular deposits in a case of juvenile amaurotic idiocy, †209
George, J. M., see Koestner, A., †194
Ghetti, B., Horoupian D., and Wiśniewski, H., neuronal response to deafferentation (simian lateral geniculate body as a model), †168
Ghidoni, J., see Haymaker, W., *72
Giant axonal neuropathy, †196
Gibbs, Jr., C. J., see Lampert, P., †171
Gilbert, J. J., see Steinberg, M. C., †158
Gilden, D. H., see Monjan, A. A., †170
Gilles, F. H., see Leviton, A., †182
—, Leviton, A., clustering of the morphologic components of perinatal telencephalic leucoencephalopathy, †213
Gilman, S., Coté, L. J., Marco, L. A., Yahr, M. D., and Wolf, A., biochemical changes in neostriatum after 6-hydroxydopamine implantation in brainstem of monkey, †167
Glutamate-induced brain damage in infant primates, *464
Goebel, H. H., and Cravioto, H., ultrastructure of human and experimental ependymomas, *54
Gonatas, N. K., see Gambetti, P., †206
Graham, D. G., Burger, P. C., Kaufman, B., Dean, D. J., and Escueta, A. V., structural-chemical correlates in Kuf's disease, †209
Gross and fine structure changes of cerebrospinal fluid circulation in congenital murine (HY-3) hydrocephalus, †213
Growth characteristics of normal and pathologic human muscle in tissue culture, †158
Grunnet, M. L., Bray, P. F., and Curless, R., the neuropathology of neonates with respiratory distress treated in an intensive care unit, †184
Gutmann, L., see Chou, S. M., †173

Haberland, C., see Brunngraber, E. G., †208

Harbison, J., see Rosenblum, W. I., †174
Harley, J., see Chou, S.. M., †173
Harrington, T., see Di Chiro, G., *447
Harter, D. H., see Miyoshi, K., †169
Hartmann, H. A., see Chang, L. W., *489
Hashi, K., see Garcia, J. H., †178
Hashimoto, S., see Roizin, L., †188
Hattori, H., see Kitamura, T., *502
Haymaker, W., Ibrahim, M. Z. M., Miquel, J., Call, N., Noden, P., Ashley, W., Ballinger, E. R., Ghidoni, J., Lindsay, I. R., Behar, A. J., and Baker, G., acute changes in the central nervous system of monkeys exposed to protons, *72
Hedley-Whyte, E. T., see Myers, G. J., †207
Hemorrhagic necrosis of superior cerebellar vermis associated with acute Wernicke's encephalopathy, †185
Hendelman, W. J., morphologic study of the effects of LSD on neurons in cultures of cerebellum, a, *411
Herman, M. M., see Miquel, J., †199
Herpes simplex virus encephalitis, ultrastructure study of, *611
Herskowitz, A., see Ishii, N., †198
n-Hexane polyneuropathy: a clinical and experimental study, †198
Hicklin, M. D., see Perl, D. P., †172
Hill, E. G., see Lee, M. C., †175
Hindo, W. H., Clasen, R. A., Pandolfi, S., and Rayudu, G. V. A., distribution of technetium in experimental cerebral injury with edema, the, †206
Hirano, A., Dembitzer, H. M., and Jones, M., electron microscopic study of cycasin-induced cerebellar alterations, an, *113
—, and Zimmerman, H. M., some unusual pathological alterations of the central myelinated axon, †165
Histochemical and histological studies of axon reaction in feline motoneurons, *221
— and ultrastructural studies of myotonic dystrophy in the mouse, †158
— study on chromatolytic neurons in the hamster, †212
Histopathogenesis of cerebellar hypoplasia induced by lymphocytic choriomeningitis virus infection of neonatal rats, †170
Hochwald, G. M., see Ogata, J., *454
Hoenig, E. M., see Levine, S., *147
—, and Levine, S., light and electron microscopic observations on a new form of passively transferred experimental allergic encephalomyelitis (EAE) featuring neutrophils, †161
Hogan, E. L., see Krigman, M. R., †163
Hooks, J., see Lampert, P., †171
Hooshmand, H., see Rosenblum, W. I., †174
Hori, M., Rapoport, S. I., Spatz, M., and Klatzo, I., reversible osmotic damage of the blood-brain barrier (BBB), †176
Horoupian, D., see Ghetti, B., †168
—, and Wiśniewski, H., neurofilamentary hyperplasia in inferior olivary hypertrophy, †186
Horseradish peroxidase, distribution of intraventricular, in normal and hydrocephalic cat brain, *454
Hsu, K. H., see Miyoshi, K., †169
Huff, S., see Martinez, A. J., †173
Hultborn, R., see Jarlstedt, J., *346
Hunter, M. J., see Nielsen, S. L., †170
Hunter, R. L., see Vijayan, V. K., †167
Hyaline ("colloid") cytoplasmic inclusions in neurons of the human hypoglossal nucleus, †185
Hypercholesterolemia, experimental, late phase of central nervous system lesions in normal and subdiabetic rabbits, *332

Ibrahim, M. Z. M., Pascoe, E., and Kader, J. A., role of 5-hydroxytryptamine in experimental and human demyelination, the †164
—, see Haymaker, W., *72
Influence of fatty acids on fine structure of cultured neurons. An experimental approach to Refsum's disease, *645
Influenza virus encephalitis in squirrel monkeys receiving immunosuppressive therapy, †169
In memoriam. Richard Biddle Richter, *1
Innervation of human intracranial arteries: a study by scanning and transmission electron microscopy, the, *526
International Congress of Neuropathology (VII) 716
International Society of Neuropathology Newsletter 718
In vitro developmental studies of human fetal cerebellar cortex, †192
Ishii, N., Herskowitz, A., and Schaumberg, H., n-hexane polyneuropathy: a clinical and experimental study, †198

Jarlstedt, J., and Hultborn, R., experimental alcoholism in rats: RNA content and composition in isolated cerebellar Purkinje cells after long-term treatment, *346
Jervis, G., see Roizin, L., †188
Johnson, A. B., Wiśniewski, H., Raine, C. S., and Eylar, E. H., antibody to basic protein in experimental allergic encephalomyelitis demonstrated histochemically with peroxidase-labeled antigen, †161
—, see Tellez-Nagel, I., †209
Johnson, K. P., and Johnson, R. T., focal ependymal cell loss: incidence in man and experimental production in myxovirus infected rodents, †171
Johnson, R. T., see Johnson, K. P., †171
—, see Narayan, O., †168
Johnson, W. J., see Dyck, P. J., †198
Jones, M., Sweeley, C., and Yang, M., effects of methylazoxymethanol glucoside (cycasin) and methylazoxymethanol acetate on the postnatal mouse cerebellum and spinal cord, †191
—, see Hirano, A., *113
—, see Martinez, A. J., †173

Kader, J. A., see Ibrahim, M. Z. M., T164
Kalyanaraman, K., see Cancilla, P. A., T159
Kaplan, H. A., Browder, A., and Browder, J., the venous sinuses of the cerebral dura mater. II. atresia of the rostral segment of the superior sagittal sinus, T180
Karch, S. B., and Urich, H., medulloepithelioma: definition of an entity, *27
Karpati, G., see Carpenter, S., T209
—, see Clarke, J. T. R., *247
Kaufman, B., see Graham, D. G., T209
Kaufman, M. A., see Roizin, L., T188
Kawamura, J., see Nelson, E., *526
Kayes, J., see Burde, R. M., T181
Kernohan, James W., *155
Kirschstein, R., see Brightman, M., T177
Kitamura, T., Hattori, H., and Fujita, S., autoradiographic studies on histogenesis of brain macrophages in the mouse, *502
Klatzo, I., see Hori, M., T176
Koehler, J. P., Lovelace, R. E., and Spiro, A. J., basement membrane and capillary endothelial alterations in hypokalemic periodic paralysis: an electron microscopic study, T160
Koenig, H., and Nayyar, R., early ultrastructural and cytochemical changes produced in white matter by d-galactosamine, T165
Koestner, A., George, J. M., and Long, J. F., neurosecretory activity of the canine supraoptic nucleus in vivo and in vitro, T194
—, see Swenberg, W., T202
—, see Wechsler, W., T203
Konigsmark, B. W., and Murphy, E. A., volume of the ventral cochlear nucleus in man: its relationship to neuronal population and age, T200
Kornfeld, M., generalized lipofuscinosis. (generalized Kufs' disease), *668
Krabbe's disease, cytoplasmic inclusion in child with, *370
Krigman, M. R., Wilson, M. H., Newell, L. R., and Hogan, E. L., effect of lead intoxication and starvation on postnatal cortical development in the rat, T163
Kufs' disease, *668
Kvedar, J. P., see Bigner, D. D., *583

Lacunar infarction: a clinico-pathologic correlation study, T212
Lalich, J. J., see Dudley, Jr., A. W., T178
Lambert, E. H., see Dyck, P. J., T198
Lampert, P., Hooks, J., Gibbs, Jr., C. J., and Gajdusek, D. C., altered plasma membranes in experimental scrapie, T171
Lapham, L. W., see Markesbery, W. R., T192
—, see Norenberg, M. D., T184
Laqueur, G. L., see Spatz, M., T191
Late infantile lipidoses: another unusual case, T209
— phase of central nervous system lesions in experimental hypercholesterolemia in normal and subdiabetic rabbits, the, T175, *332
Lawson, R. F., and Raimondi, A. J., fine structure of the ventricular ependyma in normal and hydrocephalic mice of the HY-3 strain, T183
Lee, M. C., Sung, J. H., and Hill, E. G., experimental cerebral atherosclerosis in the Hormel miniature pig, T175
Lemkey-Johnston, N., see Reynolds, W. A., T181
Levine, S., and Hoenig, E. M., astrocytic gliosis of vascular adventitia and arachnoid membrane in infantile Gaucher's disease, *147
—, see Hoenig, E. M., T161
Leviton, A., and Gilles, F. H., morphologic correlates of age at death of infants with perinatal telencephalic leucoencephalopathy, T182
—, see Gilles, F. H., T213
Levy, N. L., synergism between polyoma and inactivated Sendai virus in human astrocytes, fibroblasts and HeLa cells, *639
Light and electron microscopic observations on a new form of passively transferred experimental allergic encephalomyelitis (EAE) featuring neutrophils, T161
— studies of eosinophil-induced Purkinje cell degeneration (the Gordon phenomenon), T160
Lindsay, I. R., see Haymaker, W., *72
Liss, L., Boesel, C., Okino, T., and Traruig, H., a cell line derived from glioblastoma multiforme: a histological, histochemical, ultrastructural and biochemical analysis, T194
—, clinico pathological study of two cases of the rigid form of Huntington's chorea, T189
—, effect of morphine sulfate on cells of glioblastoma strain in tissue culture, T204
Liwnicz, B., see Shelanski, M. L., T186
Long, J. F., see Koestner, A., T194
Lovelace, R. E., see Koehler, J. P., T160
LSD, morphologic study of effects on neurons in cerebellum cultures, *411

Macrophages, brain, autoradiographic studies of histogenesis, *502
—, origin in traumatic lesions, Wallerian degeneration and retrograde degeneration, *696
Malnutrition and formation of synapses: morphological and biochemical study of synaptosome fractions, T206
Mandybur, T. I., effect of beta-irradiation on induction of brain tumors in mice with methylcholanthrene, the, T205
Manuelidis, E. E., see Manuelidis, L., T193
Manuelidis, L., and Manuelidis, E. E., proliferation and differentiation of glial cells in vitro, the, T193
Marco, L. A., see Gilman, S., T167
Markesbery, W. R., and Lapham, L. W., in

vitro developmental studies of human fetal cerebellar cortex, T192
Martin, J. B., see Aguayo, A. J., T210
Martinez, A. J., Nelson, E. C., Duma, R., Jones, M., Huff, S., and Rosenblum, W. I., experimental amebic meningoencephalitis in mice, T173
Mastri, A. R., and Sung, J. H., widespread Rosenthal fiber formation in brain stem and spinal cord without other pathological changes, T189
May, A. G., see Norenberg, M. D., T184
Mayer, J., see Arees, E. A., T181
McLone, D., and Raimondi, A. J., gross and fine structure changes of cerebrospinal fluid circulation in congenital murine (HY-3) hydrocephalus, T213
Means, E. D., Barron, K. D., and Copeland, A., retrograde atrophy of rat thalamus, T168
—, and Barron, K. D., histochemical and histological studies of axon reaction in feline motoneurons, *221
Medulloepithelioma: definition of an entity, *27
Mehraein, P., see Anzil, A. P., *370
Mendell, J. R., Engel, W. K., and Derren, E. C., reproduction of characteristic muscle lesions of Duchenne dystrophy by 5-hydroxytryptamine and norepinephrine in aorta-ligated rats, T157
—, Roelofs, R. I., and Engel, W. K., ultrastructural development of explanted human skeletal muscle in tissue culture, *433
Meningoencephalitis as a cause of fulminant disease with features of progressive supranuclear palsy, T174
Menu, R., see Dubois-Dalcq, *645
Mercury poisoning, experimental, quantitative cytochemical studies of RNA in, *489
Mersereau, W. A., see Finlayson, M. H., T178, *535
Metabolic effects of unilateral sympathectomy: reduction of cholesterol esterase and triglyceride esterase activity, T174
Minckler, J. Obituary. Karl T. Neubuerger, *559
Miquel, J., Philpott, D. E., and Herman, M. M., effects of argon and gamma-radiation on Drosophila brain, T199
—, see Haymaker, W., *72
Mitzen, E., see Barron, K. D., *562
Miyoshi, K., Wolf, A., Gamboa, E. T., Harter, D. H., Duffy, P. E., and Hsu, K. H., influenza virus encephalitis in squirrel monkeys receiving immunosuppressive therapy, T169
Model for manipulating CNS cytotoxic effects between neuronal and non-neuronal compartments, a, T180
Modification of nutritional encephalomalacia with promethazine, the, *317
Monjan, A. A., Gilden, D. H., Cole, G. A., and Nathanson, N., histopathogenesis of cerebellar hypoplasia induced by lymphocytic choriomeningitis virus infection of neonatal rats, T170
Monosodium glutamate: absence of hypothalamic lesions after ingestion by newborn primates, T181
—: necrosis of hypothalamic neurons in infant rats and mice following either oral or subcutaneous administration, T181
—-induced brain lesions in mice, T181
Moore, S., see Finlayson, M. H., T178, *535
Moossy, J., see Bullock, B., T177
—, see Wisotzkey, H. M., T185
Morel, P., see Valsamis, P., T190
Morphologic correlates of age at death of infants with perinatal telencephalic leucoencephalopathy, T182
— study of the effects of LSD on neurons in cultures of cerebellum, a, *411
Morphology of astrocytomas in tissue culture: optical and stereoscan microscopy, *596
Motoneurons, feline, histochemical and histological studies of, *221
Muller, J., toward a general morphology of congenital hydrocephalus, T184
Munsat, T., see Cancilla, P. A., T159
Murphy, E. A., see Konigsmark, B. W., T200
Murray, M. R., see Tischner, K. H., *393
Muscle, explanted human, ultrastructural development in tissue culture, *433
Myelin basic protein and glial acidic protein in Wallerian degeneration of the CNS, T199
Myelinated nerve fibers in Xenopus tadpoles: in vivo observations and fine structure, *102
Myers, F. K., and Schlaepfer, W. W., study of the relationship between growth and myelin internodal lengths in rat peripheral nerve, a, T197
Myers, G. J., and Hedley-Whyte, E. T., evaluation of presence of lipid in rectal neurones and its relationship to neurologic disease, T207
Mytilineou, C., see Barrett, R. E., T166

Nabeshima, S., and Reese, T. S., barrier to proteins within the spinal meninges, T176
Narayan, O., and Johnson, R. T., cerebral malformation in mice following infection with bluetongue virus during fetal and neonatal life, T168
Nathanson, N., see Baringer, J. R., T172
—, see Monjan, A. A., T170
Nayyar, R., see Koenig, H., T165
Nelson, E., Takayanagi, T., Rennels, M. L., and Kawamura, J., innervation of human intracranial arteries: a study by scanning and transmission electron microscopy, the, *526
Nelson, E. C., see Martinez, A. J., T173
Nelson, J. S., Fischer, V. W., and Young, P. A., modification of nutritional encephalomalacia with promethazine, the, *317
—, see Tashiro, K., T185
Neostriatum of the fetal rabbit following

injection of 1-dopa; a biochemical, histofluorescent, and electron microscopic study, the, T166
Nerve cell regeneration after axon lesions in new born rabbits. light and electron microscopic study, *683
Nerve, human peripheral, nonspecific esterases of, *562
Neubuerger, Karl T. Obituary, *559
Neuhauser, G., see Anzil, A. P., *370
Neurofilamentary hyperplasia in inferior olivary hypertrophy, T186
Neuronal response to deafferentation (simian lateral geniculate body as a model), T168
Neurons, cultured, influence of fatty acids on fine structure of, *645
Neuropathologic study of fourteen cases of malignant brain tumor treated by Boron-10 slow neutron capture radiation, *278
Neuropathology of heroin addiction, the, T165
— neonates with respiratory distress treated in an intensive care unit, the, T184
Neurosecretory activity of the canine supraoptic nucleus in vivo and in vitro, T194
Neurotoxic effects of acidic and sulphur-containing amino acids on the developing central nervous system, T182
Newborn, subpial hemorrhage in, *548
Newell, L. R., see Krigman, M. R., T163
Newsletter, Earl, K. M., 718
Nielsen, S. L., Hunter, M. J., and Baringer, J. R., reovirus-induced aqueductal stenosis in hamsters: phase and electron microscopic studies, T170
—, see Asbury, A. K., *278
Noden, P., see Haymaker, W., *72
Nonspecific esterases of human peripheral nerve and centrum ovale, *562
Norenberg, M. D., Lapham, L. W., Benson, R. W., and May, A. G., ultrastructural observations in protoplasmic astrocytes in experimental acute hepatic coma, T184
Norris, F. H., ultrastructure study of herpes simplex virus encephalitis, an, *611
Norton, W. T., see Tellez-Nagel, I., T209
Nutritional encephalomalacia, modification with promethazine, *317

Obituary. Karl T. Neubuerger, *559
—. Willibald Scholz, *217
Observations on parainfectious demyelinating encephalitis. (canine distemper), T162
Ogata, J., and Feigin, I., arteriovenous communications in the human brain, *519
—, Hochwald, G. M., Cravioto, H., and Ransohoff, J., distribution of intraventricular horseradish peroxidase in normal and hydrocephalic cat brains, *454
Ojemann, R. G., see Asbury, A. K., *278
Okino, T., see Liss, L., T194
Olney, J. W., model for manipulating CNS cytotoxic effects between neuronal and non-neuronal compartments, T180
—, neurotoxic effects of acidic and sulphur-containing amino acids on the developing central nervous system, T182
—, Sharpe, L. G., and Feigin, R. D., glutamate-induced brain damage in infant primates, *464
Origin of brain macrophages in traumatic lesions, Wallerian degeneration, and retrograde degeneration, the, *696

Paik, W. C., see Dudley, Jr., A. W., T178
Palekar, L., see Cravioto, H., T204
—, see Weiss, J. F., T203
Pandolfi, S., see Clasen, R. A., T205
—, see Hindo, W. H., T206
Papova-like virus particles in a human brain tumor, T201
Parer, J., see Sumi, S. M., T183
Parker, Jr., J. C., atypical Hodgkin's disease with intramedullary spinal cord involvement, T202
Pascoe, E., see Ibrahim, M. Z. M., T164
Pathogenesis of JHM virus-induced demyelination in mice, T163
Pathological changes of CNS induced by an inhibitor of cholesterol biosynthesis, T206
Patton, V. M., see Dekaban, A. S., T207
Pearson, C. M., see Cancilla, P. A., T159
Pearson, J., Challenor, Y., Baden, M., and Richter, R., the neuropathology of heroin addiction, T165
Peña, E. C., ultrastructure of a composite glioma-sarcoma of the brain, T201
Pentschew, A., selective vulnerability of the nuclei of the oculogyric system in vitamin E deficient monkeys, T163
Perl, D. P., Callaway, C. S., and Hicklin, M. D., ultrastructural study of Negri bodies in experimental rabies following prolonged incubation period, an, T172
Peyronnard, J. M., see Bray, G. M., T197
Pfeiffer, S. E., see Wechsler, W., T203
Phagocytosis of nerve cells during retrograde degeneration. An electron microscopic study, *132
Philpott, D. E., see Miquel, J., T199
Pitkin, R. M., see Reynolds, W. A., T181
Polycythemia, experimental, erythrocyte velocity and fluorescein transit time through cerebral microcirculation, *126
Popovitch, I., see Roizin, L., T188
Preliminary observations of living peripheral myelinated fibers using differential interference contrast microscopy, T196
Prescott, L., see Brightman, M., T177
Presidential address: cytogenesis and differentiation of primitive central neuroepithelial tumors, *7
Price, D. L., response of amphibian glial cells to axonal transection, the, *267
Proliferation and differentiation of glial cells in vitro, the, T193
Promethazine, modification of nutritional encephalomalacia with, *317

Proteins of edema fluid in experimental cerebral injury with edema, the, †205
Protons, acute changes in the central nervous system of monkeys exposed to, *72
Purkinje cells, RNA content and composition in experimental rat alcoholism, *346

Quaking mouse, dysmyelination in, *352
Quantitation of neural tissue morphology. A new approach, the, †200
Quantitative cytochemical studies of RNA in experimental mercury poisoning. I. changes in RNA content, *489

Radiation, boron-10 slow neutron capture, effect on malignant brain tumors, *278
Raimondi, A. J., see Lawson, R. F., †183
—, see McLone, D., †213
Raine, C. S., and Wiśniewski, H., observations on parainfections demyelinating encephalitis (canine distemper), †162
—, see Feldman, L. A., *624
—, see Johnson, A. B., †161
Rakic, P., and Sidman, R. L., synaptic organization of displaced and disoriented cerebellar cortical neurons in Reeler mice, †192
Ransohoff, J., see Cravioto, H., †204
—, see Ogata, J., *454
—, see Weiss, J. F., †203
Rapin, I., see Tellez-Nagel, I., †209
Rapoport, S. I., see Hori, M., †176
Ravens, J. R., degeneration of the gliofibers in the ependymal lining of the senile brain, †187
Rayudu, G. V. A., see Hindo, W. H., †206
Reese, T. S., see Nabeshima, S., †176
Regeneration of human muscle: a study of normal and dystrophic muscle after injury, †159
Regional brain metabolism and lipofuscin accumulation during aging, †210
Rennels, M. L., see Nelson, E., *526
Reovirus-induced aqueductal stenosis in hamsters: phase and electron microscopic studies, †170
Replication of measles virus in cultured hamster cerebellum, the, †171
Reproduction of characteristic muscle lesions of Duchenne dystrophy by 5-hydroxytryptamine and norepinephrine in aorta-ligated rats, †157
Response of amphibian glial cells to axonal transection, the, *267
Retrograde atrophy of rat thalamus, †168
— degeneration, an electron microscopic study of phagocytosis of nerve cells during, *132
—, origin of brain macrophages in, *696
Reversible osmotic damage of the blood-brain-barrier (BBB), †176
Reynolds, W. A., Lemkey-Johnston, N., Filer, Jr., L. J., and Pitkin, R. M., monosodium glutamate: absence of hypothalamic lesions after ingestion by newborn primates, †181
Rhinorrhea, spontaneous cerebrospinal fluid, in normal dogs, *447
Rich, R., see Cancilla, P. A., †159
Richter, Richard Biddle, in memoriam, *1
—, see Pearson, J., †165
Roelofs, R. I., Engel, W. K., and Chauvin, P. B., growth characteristics of normal and pathologic human muscle in tissue culture, †158
—, see Mendell, J. R., †157, *433
Roizin, L., Jervis, G., Kaufman, M. A., Popovitch, I., and Hashimoto, S., senile plaque pathogenesis in Down's, Alzheimer's and senile diseases, †188
Role of 5-hydroxytryptamine in experimental and human demyelination, the, †164
Roos, R., see Chou, S. M., †173
Rosenblum, W. I., Effect of anemia on erythrocyte velocity and plasma transit time in the cerebral microcirculation of macroglobulinemic mice, †179
—, erythrocyte velocity and fluorescein transit time through the cerebral microcirculation in experimental polycythemia, *126
—, Hooshmand, H., and Harbison, J., meningoencephalitis as a cause of fulminant disease with features of progressive supranuclear palsy, †174
—, see Martinez, A. J., †173
Rubinstein, L. J., presidential address: cytogenesis and differentiation of primitive central neuroepthithelial tumors, *7

S-100 protein in tumors of the central and peripheral nervous system of rats induced by nitrosoureas, †203
Schainker, B., see Burde, R. M., †181
Schaumberg, H., see Ishii, N., †198
Schlaepfer, W. W., see Myers, F. K., †197
Schlenker, J., see Austin, J., †174
Schmidt-Ruppin Rous sarcoma virus, factors influencing cell type of brain tumors induced in the dogs by, *583
Schneck, L., see Adachi, M., †208
Scholz, Willibald. Obituary, *217
Schulman, S., in memoriam, Richard Biddle Richter, *1
Sedgwick, W. G., see Ferrendelli, J. A., †210
Segmental demyelination secondary to axonal dystrophy in uremic neuropathy, †198
Selective vulnerability of the nuclei of the oculogyric system in vitamin E deficient monkeys, †163
Senile plaque pathogenesis in Down's Alzheimer's and senile diseases, †188
Sequential development of transplacentally induced neuroectodermal tumors, the, †202
Shaffer, T. C., see Bigner, D. D., *583
Sharpe, L. G., see Olney, J. W., *464
Sheff, M. F., see Zacks, S. I., †157
Shelanski, M. L., Liwnicz, B., and Slusarek, W., biochemical studies on Guam parkinsonism dementia, †186
Sheppard, J., see Austin, J., †174
Sheppard, R. D., see Feldman, L. A., †171
Sidell, A. D., see Waggener, J. D., †187

Sidman, R. L., see Rakio, P., T192
Slusarek, W., see Shelanski, M. L., T186
Sodium azide, effects on cultures of peripheral nervous system, *393
Some biochemical and histochemical changes in MAM induced microencephaly in rats, T191
— ultrastructural and pathological features of unmyelinated axons, T195
— unusual pathological alterations of the central myelinated axon, T165
Soreide, A. J., see Torvick, A., *683
Spatz, M., see Hori, M., T176
—, Szumanska, G., and Laqueur, G. L., some biochemical and histochemical changes in MAM induced microencephaly in rats, T191
Spinal cord emboli in dogs and monkeys and their relevance to aortic atheroma in man, T178, *535
Spiro, A. J., see Koehler, J. P., T160
Spontaneous cerebrospinal fluid rhinorrhea in normal dogs. Radioisotope studies of an alternate pathway of CSF drainage, *447
Starr, A. J., see Clasen, R. A., T205
Stein, S. C., see Di Chiro, G., *447
Steinberg, M. C., Gilbert, J. J., and Banker, B. Q., histochemical and ultrastructural studies of myotonic dystrophy in the mouse, T158
Stenwig, A. E., origin of brain macrophages in traumatic lesions, Wallerian degeneration, and retrograde degeneration, the, *696
Stern, J., and Bornstein, M. B., the formation of sulfatide inclusions in cultures of organized central and peripheral nervous system, T195
Sterol metabolism in tumors of the trigeminal nerve induced by nitrosourea derivatives, T203
Steward, V. W., quantitation of neural tissue morphology. a new approach, the, T200
Structural-chemical correlates in Kufs' disease, T209
Study of the relationship between growth and myelin internodal lengths in rat peripheral nerve, a, T197
Subacute focal adenovirus encephalitis, T173
Subpial hemorrhage in infants, *548
Sumi, S. M., Alvord, Jr., E. C., Parer, J., Eng, M., and Ueland, K., accumulation of sudanophilic lipids in the cerebral white matter of premature primates: an experimental inquiry into the pathogenesis of the Virchow-Schwartz-Banker-Larroche lesion, T183
Sung, J. H., see Lee, M. C., T175
—, see Mastri, A. R., T189
Suntzeff, V., see Ferrendelli, J. A., T210
Suter, D. B., see Vijayan, V. K., T167
Suzuki, K., De Paul, L., pathological changes of CNS induced by an inhibitor of cholesterol biosynthesis, T206
Sweet, W. H., see Asbury, A. K., *278
Swelley, C., see Jones, M., T191
Swenberg, J., Wechsler, W., and Koestner, A., sequential development of transplacentally induced neuroectodermal tumors, the, T202
—, see Wechsler, W., T203
Swoveland, P., see Baringer, J. R., T172
Synaptic organization of displaced and disoriented cerebellar cortical neurons in Reeler mice, T192
Synergism between polyoma and inactivated Sendai virus in human astrocytes, fibroblasts and HeLa cells, *639
Szumanska, G., see Spatz, M., T191

Tadpoles, Xenopus, myelinated nerve fibers in, *102
Takayanagi, T., see Nelson, E., *526
Tashiro, K., and Nelson, J. S., hemorrhagic necrosis of superior cerebellar vermis associated with acute Wernicke's encephalopathy, T185
Tellez-Nagel, I., Terry, R. D., Johnson, A. B., Rapin, I., and Norton, W. T., late infantile lipidoses: another unusual case, T209
Tennyson, V. M., see Barrett, R. E., T166
Terry, R. D., Wiśniewski, H., and Coblentz, J., an ultrastructural study of Pick's disease, T188
—, see Tellez-Nagel, I., T209
Tischner, K. H., and Murray, M. R., effects of sodium azide on cultures of peripheral nervous system, the, *393
Tissue culture from fetal Tay-Sachs disease, T208
Torii, J., see Adachi, M., T175
—, see Adachi, M., T208
Torvik, A., phagocytosis of nerve cells during retrograde degeneration. an electron microscopic study, *132
—, and Soreide, A. J., nerve cell regeneration after axon lesions in new born rabbits. light and electron microscopic study, *683
Towards a general morphology of congenital hydrocephalus, T184
Traumatic lesions, origin of brain macrophages in, *696
Traurig, H., see Liss, L., T194
Trophic function of in vivo homologous sensory ganglion transplants, T194
Tumors, cytogenesis and differentiation of primitive central neuroepithelial, *7
—, induced in brain by Schmidt-Ruppin Rous sarcoma virus, *583

Ueland, K., see Sumi, S. M., T183
Ultrastructural development of explanted human skeletal muscle in tissue culture, T157, *433
— observations in protoplasmic astrocytes in experimental acute hepatic coma, T184
— observations on the Wobbler mouse, T190
— study of degeneration and regeneration in unmyelinated nerve fibers, an, T197
— study of Negri bodies in experimental

rabies following prolonged incubation period, an, †172
— study of Pick's disease, an, †188
Ultrastructure of a composite glioma-sarcoma of the brain, †201
— of human and experimental ependymomas, *54
— study of herpes simplex virus encephalitis, an, *611
Urich, H., see Karch, S. B., *27

Valsamis, P., Wiśniewski, H., and Morell, P., dysmyelinogenesis in the Quaking mouse. An ultrastructural study, †190
Vascular adventitia, astrocytic gliosis of, *147
Venous sinuses of the cerebral dura mater. II. atresia of the rostral segment of the superior sagittal sinus, the, †180
Ventral cochlear nucleus, relationship of volume to neuronal population and age, *304
Vick, N. A., see Bigner, D. D., *583
Vijayan, V. K., Suter, D. B., Brownson, R. H., and Hunter, R. L., alterations in isoenzyme patterns of esterase in rat brain following the administration of parathion, †167
Vincristine, effect on rat skeletal muscle *247
Viral hemorrhagic encephalopathy of rats: a phase and electron microscopic study, †172
Virus-like filaments in juvenile Parkinsonism, †187
—-host relationships in measles-infected cultures of central nervous tissue, *624
—, polyoma, synergism with inactivated Sendai virus in human astrocytes, fibroblasts and HeLa cells, *639
—, Sendai, synergism with polyoma virus in human astrocytes, fibroblasts and HeLa cells, *639
Volk, B. W., see Adachi, M., †175, *332
—, see Adachi, M., †208
Volume of the ventral cochlear nucleus in man: its relationship to neuronal population and age, †200
— ventral cochlear nucleus in man: its relationship to neuronal population and age, †200

Waggener, J. D., Beggs, J., and Sidell, A. D., virus-like filaments in juvenile parkinsonism, †187
Wallerian degeneration, origin of brain macrophages in, *696
Watanabe, I., and Bingle, G. J., dysmyelination in "quaking" mouse. electron microscopic study, *352
Webster, H., and Billings, S. M., preliminary observations of living peripheral myelinated fibers using differential interference contrast microscopy, †196
Webster, H. deF., and Billings, S. M., myelinated nerve fibers in Xenopus tadpoles: in vivo observations and fine structure, *102
Wechsler, W., Pfeiffer, S. E., Swenberg, J. A., and Koestner, A. A., s-100 protein in tumors of the central and peripheral nervous system of rats induced by nitrosoureas, †203
—, see Swenberg, J., †202
Weiner, L. P., pathogenesis of JHM virus-induced demyelination in mice, †163
Weiss, E. deC., see Cravioto, H., †204
—, see Weiss, J. F., †203
Weiss, J. F., Cravioto, H., Weiss, E. deC., Palekar, L., and Ransohoff, J., sterol metabolism in tumors of the trigeminal nerve induced by nitrosourea derivatives, †203
—, see Cravioto, H., †204
Wellmann, K. F., see Adachi, M., †175, *332
Widespread Rosenthal fiber formation in brain stem and spinal cord without other pathological changes, †189
Wilson, M. H., see Krigman, M. R., †163
Wiseley, T., see Austin, J., †174
Wiśniewski, H., see Ghetti, B., †168
—, see Horoupian, D., †186
—, see Johnson, A. B., †161
—, see Raine, C. S., †162
—, see Terry, R. D., †188
—, see Valsamis, P., †190
Wisotzkey, H. M., and Moossy, J., hyaline ("colloid") cytoplasmic inclusions in neurons of the human hypoglossal nucleus, †185
Witting, L. A., see Brunngraber, E. G., †208
Wolf, A., see Miyoshi, K., †169
Wolfe, L. S., see Clarke, J. T. R., *247

Yahr, M. D., see Gilman, S., †167
Yang, M., see Jones, M., †191
Young, P. A., see Nelson, J. S., *317

Zacks, S. I., and Sheff, M. F., fine structure and biochemical studies of MED myopathy in C57BL6J mice, †157
Zalewski, A. A., trophic function of in vivo homologous sensory ganglion transplants, †194
Zeman, W. Obituary, Willibald Scholz, *217
Zimmerman, H. M., see Hirano, A., †165